This Track 1 Decision Document is marked "Draft" but is a final document signed by the agencies.

16/11 Date 3/24/2005

Site 016 Track 1 Decision Documentation Package, OU 10-08

DECISION DOCUMENTATION PACKAGE COVER SHEET

Prepared in accordance with

TRACK 1 SITES: GUIDANCE FOR ASSESSING LOW PROBABILITY HAZARD SITES AT THE INEEL

Site Description:

Farming Debris in Big Lost River Sinks Area

Site ID:

016

Operable Unit:

10-08

Waste Area Group:

10

I. Summary – Physical Description of the Site:

The site is located on the northwest side of the INEEL perimeter, approximately 1.6 miles south of State Highway 22/33 intersection. The site lies ~ 3/4 of a mile southeast of the east-to-north cornering of INEEL borderline about 7 miles east of Howe, Idaho, and 1.6 miles west of the dividing of State Highways 22 and 33. This site was originally listed as part of an environmental baseline assessment in 1994 and identified as a potential new waste site in 1995. In accordance with Management Control Procedure-3448, Reporting or Disturbance of Suspected Inactive Waste Sites, a new site identification form was completed for this site. As part of the process, a field team wrote a site description and collected photographs and global positioning system (GPS) coordinates of the site (the GPS coordinates are

The GPS coordinate system is listed as NAD 27, Idaho East Zone, State Plane Coordinates. The new site identification process also included a search and review of existing historical documentation.

Investigations revealed that Site 016 is a historic (circa 1910-1920) homestead/farm, and is considered by the Idaho State Historic Preservation Office (SHPO) to be a significant historical/archaeological resource. This site contains waste generated by early domestic. agricultural and livestock activities, including: a moderate scatter of broken glass, ceramic pieces. leather and rubber boot fragments, shell buttons, stove parts, empty rusted cans, a possible structure leveling, the remains of a wind-driven water pump with concrete trough, cinderblocks, rusted farm implement pieces, wagon parts, old spark plugs, wire and shoeing nails, milled lumber. ammunition casings and aluminum irrigation pipes. The cracked, concrete livestock watering tank has inscribed on its north wall the name, "D BISHOP" and date, "1917". Eroded posts and bundles of barbed and woven stock fence wire pass north, east, and south of the main site area. The locality may have served as a calving area or holding pen for branding or other activities, accounting for the lack of vegetation surrounding the trough. The site is located on slightly elevated ground adjacent to the Little Lost River drainage channel within the Big Lost River Sinks area. A small, very light scatter of volcanic glass flakes and one projectile point fragment were also located amid the historic debris. These prehistoric scatterings cover an area of ~ 161.4 square feet and must not be disturbed. This debris was abandoned in place prior to establishment of the National Reactor Testing Station (NRTS) in 1949.

There is no visual evidence of hazardous constituents, nor evidence that waste has recently been disposed of at this site. There is no evidence of disturbed vegetation, or stained or discolored soil. The ground surface shows well-established native grasses and sagebrush. The description of the site conditions is based on recent site investigations and INEEL Cultural Resource research; no field screening or sample data exist for this site.

DECISION RECOMMENDATION

II. SUMMARY – Qualitative Assessment of Risk:

There is no evidence that a source of contamination exists at this site, nor is there empirical, circumstantial or other evidence of contaminant migration. The reliability of information provided in this report is high. Field investigations, interviews with Cultural Resource personnel, and photographs revealed no visual evidence of hazardous substances that may present a danger to human health or the environment. Therefore, the overall qualitative risk at Site 016 is considered low

III. SUMMARY – Consequences of Error:

False Negative Error:

The possibility of contaminant levels at this site being above risk-based limits is remote. Field surveys and visual observations of the debris and surface soil indicated no evidence of hazardous constituents. If hazardous materials and wastes were placed into this area, evidence such as stained soil, odors, loss of vegetation, fibrous materials, or other indications of contamination would be present.

False Positive Error:

If further action were completed at this low risk site, funds could exceed the environmental benefit. Surface soil sampling and analysis for organic compounds, metals, radionuclides or other hazardous constituents would be needed to confirm the presence or absence of contamination. Based on existing information, there is no need for further action at this site.

IV. SUMMARY - Other Decision Drivers:

INEEL Cultural Resource personnel determined that this site meets the requirements as a historic resource. Based on the age of the artifacts (1910-1920 timeframe), it was recorded as a SHPO site. An extensive Intermountain Antiquities Computer System (IMACS) site survey was conducted in 1989. Prior to completing any further action at this site, INEEL Cultural Resource personnel must be contacted.

Recommended Action:

It is recommended that this newly identified site be classified as No Further Action. Field investigations, interviews, historical knowledge of this area, and photographs indicate it is highly unlikely that hazardous or radioactive materials were generated or disposed of at this site. It is located in a remote, abandoned area with no viable pathways or receptors. Test Area North (TAN) is the closest INEEL facility located ~10 miles northeast of the site. There is nothing present at this site that would indicate evidence of contaminant migration, or historical or threatened release of hazardous substances, pollutants or contaminants. This site is similar to other domestic debris piles across the INEEL related to homesteads, stage stops or canal building base camps that contain domestic or agricultural waste that does not pose a risk to human health or the environment.

Signatures:		# Pages:	16	Date:	July 27, 2001
Prepared By:	Marilyn Paarmann, WPI	DOE WAG Manage	er:		
Approved By:	Mint These	Independent Revie	$w: \int c$	The state	· Rono

DECISION STATEMENT (DOE RPM)

Site 016 - 0010-08

Date Received: 8/24/04

Disposition: No Further Action 13 appropriate for this old homestead site which does not pose on unacceptable risk to human health or the environment

Date: 9/3/04 # Pages: 1

Name: Kathleen E. Hain Signature: Nathlan E Hain

DECISION S (EPA	
Date Received: 9/4/0/	10-08-016
Disposition: Be sed on photographic on watering temple, 15 of domestic / f 10cution of site 15	aphic evidence and inscription it appears That exasts army origin. Further, among operations. No westigates appears
Date: 9/20/0/	# Pages: Signature: Mayn Section
Name: Wayne Merre	Signature: Mayn Teca

DECISION STATEMENT (IDEQ RPM) September 4, 2001 Date Received: Disposition: Site #016 Site #016 consists of farming debris located about 1.6 miles southwest of the junction of State Highways 22 and 33 in the Big Lost River Sinks area. The debris includes broken glass, remains of a wind-driven water pump, stove parts, concrete livestock watering tank (dated 1917), and aluminum irrigation pipe. There is no evidence of hazardous constituents or waste being disposed in the area nor is there evidence of stained soils to suggest the presence of contamination that would warrant action. The state concurs this is a no further action site.

Pages:

Signature: Ween Mygan

Date:

PROCESS/WASTE WORKSHEET	VORKSHEET	
SITE ID: 016	PROCESS:	Farming Debris in Big Lost River Sinks Area
	WASTE:	Historic Farming Debris/Prehistoric Lithic Scatter
Col 1 Processes Associated with this Site	Col 2 Waste Description & Handling Procedures	Col 3 Description & Location of any Artifacts/Structures/Disposal Areas Associated with this Waste or Process
Debris piles containing waste generated by early domestic, agricultural and livestock activities. Prehistoric lithic scatter from many centuries ago.	Waste abandoned by homesteaders/farmers in the early part of the twentieth century. Lithic waste abandoned by prehistoric Native Americans living on present day INEEL property.	Artifact: Domestic/Agricultural/Farming Debris and Prehistoric Lithic Debris Location: The site is located in the Sinks Area near the INEEL's western boundary, east of Howe and south of Highway 33. Description: Site O16 contains waste generated by early domestic, agricultural and livestock activities, including: a moderate scatter of broken glass, ceramic pieces, leather and rubber boot fragments, buttons, stove parts, empty rusted cans, a possible structure leveling, the remains of a wind-driven water pump with concrete trough, cinderblocks, rusted farm implement pieces, wagon parts, old spark plugs, wire and shoeing nails, milled lumber, ammunition casings, aluminum irrigation pipes, eroded posts and bundles of barbed and woven stock fence wire. A small, very light scatter of volcanic glass flakes and one projectile point fragment was also located amid the early twentieth century historic debris.

CONTAMINANT WORKSHEET					
SITE ID: 016	PROCESS:	Farming Debris in Big Lost River Sinks Area	ost River Sinks Area	ar.	
	WASTE:	Historic Farming Debris/Prehistoric Lithic Scatter	%Prehistoric Lithic So	satter	
Col 4 What Known/Potential Hazardous Substance/Constituents are Associated with this Waste or Process?	Col 5 Potential Sources Associated with this Hazardous Material	Col 6 Known/Estimated Concentration of Hazardous Substances/ Constituents	Col 7 Risk-based Concentration	Col 8 Qualitative Risk Assessment (high/med/	Col 9 Overall Reliability (high/med/ low)
None	Soil	None	N/A	Low	High

Question 1.	What are the waste ge associated with this s		ocesses, locations, and date	s of operation
contains wast of broken glas rusted cans, a trough, cinder nails, milled lubarbed and w projectile poin	te generated by early agress, ceramic pieces, leather possible structure levelimblecks, rusted farm impleumber, ammunition casing toven stock fence wire. And fragment were also located	icultural and er and rubbeing, the remement piece gs, aluminu amall, very ated amid the	es as a historic homestead/farr I livestock activities, including: a er boot fragments, buttons, stov ains of a wind-driven water pun s, wagon parts, old spark plugs m irrigation pipes, eroded posts light scatter of volcanic glass flate he early twentieth century histor tern boundary, east of Howe an	a moderate scatter re parts, empty np with concrete s, wire and shoeing s and bundles of akes and one ric debris. The site
and Health (E abandoned by	Explain the reasoning th INEEL Cultural Resour ER ES&H) personnel reve	behind thinces and Engled that Sindonesteade	vironmental Restoration Enviror te 016 consists of domestic/farr ers. The artifacts found at the s	nmental Safety ming debris
Block 3 Has this INFORMATION been confirmed? Yes No If so, describe the confirmation. (check one) This has been confirmed with interviews conducted by ER ES&H personnel during a 1994 environmental assessment, a 1989 IMACS survey, an interview conducted with INEEL WAG 10 and Cultural Resource personnel, site investigations and photographs.				
Block 4	Sources of Informatio	,	ck appropriate box(es) & sour ence list)	ce number from
	ocess Data cess Data s Site Drawings currence Report ocuments	□ 2, 5 □ □ 3 □ □ □	Analytical Data Documentation about Data Disposal Data QA Data Safety Analysis Report D&D Report Initial Assessment Well Data Construction Data	□ □ □

Question 2.	What are the disposal processes, locations, and dates of operation associated with this site? How was the waste disposed?
homestead/fa are domestic side of the IN ~ 3/4 of a mile	Answer: th INEEL Cultural Resource personnel revealed that Site 016 is a historic form dating to the 1910-1920 timeframe. Site investigations indicate that the artifacts in nature, very old and predate INEEL activities. The site is located on the northwest EEL perimeter ~ 1.6 miles south of the State Highway 22/33 intersection. The site lies a southeast of the east-to-north cornering of the INEEL borderline about 7 miles east no, and 1.6 miles west of the dividing of State Highways 22 and 33.
are domestic/	How reliable are the information sources? High Med Low Explain the reasoning behind this evaluation. (check one) burce personnel confirmed that this site is a recorded homestead/farm and the artifacts agricultural in nature, unrelated to INEEL operations, and pose no threat to human environment. The site is designated as a SHPO cultural resource.
	Has this INFORMATION been confirmed? Yes No If so, describe the confirmation. (check one) d site investigations confirm the historical value of the site and artifacts, processes estimated age of the artifacts. Photographs confirm the types of debris and current the site.
Block 4	Sources of Information (check appropriate box(es) & source number from reference list)
	2, 5 Documentation about Data ocess Data Disposal Data QA Data QA Data S Safety Analysis Report Surrence Report Unitial Assessment Well Data

Question 3.	Is there evidence that a source exists at this site? If so, list the sources and describe the evidence.	
of hazardous contains debr remains of a v rusted cans w There is some as a holding p	Answer: sual evidence that a source of contamination exists at Site 016. There is no evidence constituents, disturbed vegetation, stained or discolored soil, or odor. The site is that was generated by early domestic, agricultural and livestock activities. The wind-driven water pump with concrete trough, aluminum irrigation pipes, and various were found on the site. There was no evidence of residuals in any of these artifacts. The lack of vegetation surrounding the water trough, likely resulting from using this area been for branding or calving. INEEL Cultural Resources has dated these artifacts from 0 timeframe. The debris is considered very old, domestic/agricultural in nature, and EL activities.	
are domestic/	How reliable are the information sources? High Med Low Explain the reasoning behind this evaluation. (check one) burce personnel confirmed that this site is a recorded homestead/farm and the artifacts agricultural in nature, unrelated to INEEL operations, and pose no threat to human environment. This site is designated as a SHPO cultural resource.	
Block 3 Has this INFORMATION been confirmed? Yes No If so, describe the confirmation. (check one) This information was confirmed with interviews, site investigations, historic research and photographs.		
Block 4 No Available Anecdotal Historical Procession	☐ 2, 5 ☐ Documentation about Data ☐ Disposal	
Photographs Engineering/	S Safety Analysis Report Site Drawings D&D Report Furrence Report Initial Assessment Couments Well Data	

Question 4.	Is there empirical, circumstantial, or other evidence of migration? If so, what is it?
constituents, of established. If twentieth cent operations. The 1920 timefrant irrigation pipes in any of these	Answer: ridence of migration at this site. Investigations reveal no visual evidence of hazardous disturbed, stained or discolored soil areas, or odors. The vegetation appears to be well NEEL Cultural Resources has determined that the debris was abandoned by early tury homesteaders/farmers, is domestic/agricultural in nature and predates INEEL ne site is estimated to be more than fifty years old, dating to approximately the 1910-ne. The remains of a wind-driven water pump with concrete trough, aluminum is, and various rusted cans were found on the site. There was no evidence of residuals a artifacts. There is some lack of vegetation surrounding the water trough, likely using this area as a holding pen for branding or calving.
	How reliable are the information sources? High Med Low Explain the reasoning behind this evaluation. (check one) pections and photographs show that vegetation is well established, and no soil ecoloration is present, giving no indication of disturbance or evidence of contaminants.
Block 3 Site investigation of the site.	Has this INFORMATION been confirmed? Yes No If so, describe the confirmation. (check one) tions, interviews and photographs confirm the types of artifacts and present condition
	2, 5 Documentation about Data Disposal Data

Question 5.	pattern of potential con	taminatio	nistorical information allow esting it is expected to the expected minimum size of a	be a
substances at visual evidend vegetation was or calving. The INEEL activition be estimated of the type, as	t the site. There is no evidence of disturbed vegetation, as likely disturbed due to the debris has been determines. The pattern of potential without further field screen	ence of sta excluding ne area ard ned to be al contamir ning or soil n of the de	nation because there is no evidence ined or discolored soil in the area the area around the water trough bund it being used as a holding pedomestic/agricultural in nature anation by organics, metals, or radic sampling around the debris. Howebris it is highly unlikely that conta	, odors, or . This n for branding d unrelated to nuclides cannot ever, because
Resource sur debris is dom Photographs	Explain the reasoning to on was obtained from 1994 vey, site investigations and estic/agricultural in nature,	pehind thi 4 environn d photogra , predates ained or d	s evaluation. (check one) nental baseline assessment intervents of the site. The information real INEEL activities and is more than a scolored and vegetation near the	eveals that the 50 years old.
Block 3 Interviews, si	Has this INFORMATION If so, describe the confi te investigations, photogra	irmation.	nfirmed?	
Block 4	Sources of Information	`	ck appropriate box(es) & source	number from
	ocess Data cess Data cess Data S S Site Drawings currence Report Cocuments	2, 5 3 3	Analytical Data Documentation about Data Disposal Data QA Data Safety Analysis Report D&D Report Initial Assessment Well Data Construction Data	□ □ □ □ ■ 4

Question 6.		olume of t	depth of the contaminated region he source? If this is an estimate the was derived.	
Block 1	Answer:			
covering an a broken glass, rusted cans, a trough, cinder nails, milled to barbed and w projectile poir water pump v site contained	rea of approximately 73,0 ceramic pieces, leather a possible structure levelimble blocks, rusted farm implementation casing oven stock fence wire. And fragment were also located to concrete trough, alund no evidence of residuals.	000 square and rubbering, the rerement pieces, aluminated amidinum irrigas. There is	Site 016 consists of domestic/agrie feet. Artifacts include a moderate boot fragments, buttons, stove parains of a wind-driven water pumpes, wagon parts, old spark plugs, um irrigation pipes, eroded posts and light scatter of volcanic glass flatthe historic debris. The remains of ation pipes, and various rusted car some lack of vegetation surround ding pen for branding or calving.	e scatter of arts, empty of with concrete wire and shoeing and bundles of the wind-driven as found on the
Block 2	How reliable are the ir Explain the reasoning			Low
conducted by indication tha	INEEL Cultural Resourc t the debris contains any now no evidence of staini	e personne thing that v	al baseline assessment interviews el, site investigations and photogra vould cause potential contaminatio t the vegetation is well established	phs. There is no on. Photographs
Block 3 Has this INFORMATION been confirmed? Yes No If so, describe the confirmation. (check one)				
Interviews, si	te investigations, photogr	aphs and h	nistorical research confirm the info	rmation.
Block 4	Sources of Informatio	(eck appropriate box(es) & sourcerence list)	e number from
	ocess Data cess Data S Site Drawings currence Report ocuments	☐ 2, 5 ☐ 3 ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	Analytical Data Documentation about Data Disposal Data QA Data Safety Analysis Report D&D Report Initial Assessment Well Data Construction Data	

Question 7.	What is the known or estimated quantity of hazardous substance/constituent at this source? If the quantity is an estimate, explain carefully how the estimate was derived.
is no evidence abandoned by predates INE aluminum irrig of residuals ir	Answer: d quantity of hazardous substances/constituents at this site is near zero because there e of any hazardous materials present. The site consists of domestic/agricultural debris y early twentieth century homesteaders/farmers. The debris is weathered, very old and EL activities. The remains of a wind-driven water pump with concrete trough, gation pipes, and various rusted cans were found on the site. There was no evidence in any of these artifacts. There is some loss of vegetation surrounding the water trough, g from using this area as a holding pen for livestock.
conducted by indication tha	How reliable are the information sources? High Med Low Explain the reasoning behind this evaluation. (check one) ion was obtained from environmental baseline assessment interviews, a survey INEEL Cultural Resource personnel, site investigations, and photographs. There is not the debris contains anything that would cause potential contamination. Photographs now no evidence of staining and that vegetation is well established.
	Has this INFORMATION been confirmed? Yes No If so, describe the confirmation. (check one) ion was confirmed through site inspections, interviews, photographs and INEEL ource historical research.
	2,5 Documentation about Data Disposal Data Dess Data DA D

Question 8.	Is there evidence that this hazardous substance/constituent is present at the source as it exists today? If so, describe the evidence.	
action at this are from early	Answer: vidence that a hazardous substance or constituent is present at levels that require site. INEEL Cultural Resource personnel confirm that the artifacts present on the site twentieth century homesteaders/farmers. The debris is estimated to be more than 50 10-1920 timeframe), domestic/agricultural in nature, and predates INEEL activities.	
conducted by indication that	How reliable are the information sources? High Med Low Explain the reasoning behind this evaluation. (check one) on was obtained from environmental baseline assessment interviews, a survey INEEL Cultural Resource personnel, site investigations, and photographs. There is no the debris contains anything that would cause potential contamination. Photographs now no evidence of staining and that vegetation is well established.	
Block 3 Has this INFORMATION been confirmed? Yes No If so, describe the confirmation. (check one) This information was confirmed through site inspections, INEEL Cultural Resource historical research, interviews and photographs.		
Block 4	Sources of Information (check appropriate box(es) & source number from reference list)	
	2, 5 Documentation about Data Disposal Data Cess Data QA Data S Safety Analysis Report Surrence Report Initial Assessment Well Data	

REFERENCES

- 1. DOE, 1992, Track 1 Sites: Guidance for Assessing Low Probability Sites at the INEL, DOE/ID-10390 (92), Revision 1, U.S. Department of Energy, Idaho Falls, Idaho, July.
- 2. Interview with an Environmental Baseline Assessment team member, February 6-7, 2001.
- 3. Photographs of Site 016: PN99-0494-2-17, PN99-0494-2-21, PN99-0494-2-22, PN99-0494-2-23, PN99-0494-2-24, PN99-0494-2-25, PN99-0494-2-26, PN99-0494-2-27, PN99-0494-2-29, and PN99-0494-2-30.
- 4. FY 1999 WAG 10 Newly Identified Sites, Volumes I and II.
- 5. Interviews with Brenda Ringe Pace, INEEL Cultural Resources Management, February 7 and May 16, 2001.

